Abstract of the Disclosure

The present invention relates to a method for fabricating a semiconductor device with improved refresh time. The method includes the steps of: forming a plurality of gate lines on a substrate; forming a plurality of cell junctions by ion-implanting a first dopant with use of the gate lines as a mask; forming a buffer layer along a gate line profile; and forming a plurality of plug ion-implantation regions in the cell junctions by ion-implanting a second dopant into the substrate under the presence of the buffer layer to thereby from the plugs thereon.

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